SONY

HVR-Z1E

HDV 1/3" 3CCD Handheld Camcorder

Affordable migration to High Definition

Providing HDV with the 1080i Standard and joining the existing DVCAM range, the HVR-Z1E offers users an affordable migration path from Standard Definition whilst retaining the popular DVCAM benefits such as ease of use and i.LINK (IEEE1394) connectivity. In addition to its compact size, the HVR-Z1E boasts a number of features over consumer-oriented products making it ideal for the professional user.

Features

HDV / DVCAM / DV Switchable

Providing professional users with the flexibility to choose the format that suits the need your production and offering an easy migration from a Standard Definition environment.

Built-in converter to take HDV images to Standard Definition

The flexibility to film your footage in HDV and use the camera's down-converter to output Standard Definition pictures if required.

50Hz / 60Hz (PAL / NTSC) Switchable

Allowing you to make your productions on a worldwide basis, without the need for two separate camcorders with each standard.

2ch Audio XLR Inputs

The HVR-Z1E offers the recording of audio by providing both an in-built stereo microphone and XLR inputs for an external microphone supplying +40V phantom power.

2ch Independent Audio Rec Level Control

Intuitive control of audio recording level is possible with independent 2-channel dials.

Time Code Preset

Supports professional operation with flexible Time Code and User settings.

B/W & Colour Switchable Viewfinder

Allowing you to choose either a colour display or Black & White display on the Viewfinder depending on your preference.

Simultaneous Operation of LCD Panel & Viewfinder

Allowing you greater flexibility to focus shots accurately via Viewfinder while simultaneously framing images via the fold-out LCD Panel.

6 Assign Buttons

6 Assign Buttons are prepared to allow you to customise your camera. 6 frequently used functions including Hyper Gain, AE Override, White Balance Level for Outdoor, and Safety Zone Marker can be selected from over 10 available parameters.

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Six Assign Buttons

Functions frequently used in the field can be assigned to six Assign Buttons (push buttons), allowing operators to make rapid changes under field conditions.

Benefits

An affordable way to enjoy High Definition

Through the HDV format Sony's HVR-Z1E allows you to capture High Definition pictures on a standard DV format cassette - providing both a highly cost effective format and full 1080 line resolution.

The ability to choose the most appropriate recording format for your production

With the Sony HVR-Z1E, you are able to switch between HDV, DVCAM and DV recording giving you full flexibility to record in either Standard or High Definition depending on your production needs.

Designed for Professional Use

As a professional product, Sony recognises that your needs are different to that of a consumer. As a result the HVR-Z1E incorporates more than 40 extra functions over the consumer camcorder HDR-FX1E to help support you and your production needs.

Easy integration to the way you already work - convert from HDV to Standard Definition if required.

Continuity of Workflow can be very important. Enjoying the benefits of the HVR-Z1E does not mean that you need to change the way you work. Like DVCAM, i.LINK (IEEE1394) provides connectivity to PC based editing systems. In addition, you can choose to shoot in HDV and use the in-built down-converter to output in DVCAM allowing editing and final production to be carried out in Standard Definition in the usual way.

Cinema-look Shooting

The HVR-Z1E offers the capability to provide a cinema-look to your production images using CineframeTM 25 Mode (25 frame progressive-look effect) and 2-mode Cinematone GammaTM.

AC Adaptor/Charger included as standard

AC Adaptor/Charger AC-VQ850 is supplied as standard with the HVR-Z1E providing great value for money

Technical Specifications

Lens	Carl Zeiss Vario-Sonnar T* zoom lens, 12x (optical) f = 4. 5 to 54 mm f = 32.5 to 390 mm (*2) at 16:9 mode f = 40 to 480 mm (*2) at 4:3 mode F = 1.6 to 2.8, filter diameter: 72 mm
Built-in filter	1/6 ND, 1/32 ND
Focus	Auto, manual (focus ring/infinity position), one push auto
Imaging device	3-chip 1/3-inch type CCDs with a 16:9 aspect ratio
Picture elements	Approx. 1,070,000 pixels (effective), approx. 1,120,000 pixels (total)
White balance	Auto, one-push auto, indoor (3200 K), outdoor (5800 K ±7 steps)

Shutter speed

60i/NTSC mode	1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 s
50i/PAL mode	1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000 s
Exposure	Auto, manual
Gain	0, 3, 6, 9, 12, 15, 18 dB (adjustable for H, M and L gain positions)
Minimum illumination	3 lx with F1.6 at 18 dB
Recording format	1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL)
Play out/Down conversion format	1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL), 480/60p, 576/50p,

Tape speed

HDV/DV SP	Max. 18.812 mm/s with PHDVM-63DM cassette
DVCAM	Max. 28.218 mm/s with PHDVM-63DM cassette

Playback/Recording time

HDV/DV SP	Max. 63 min with PHDVM-63DM cassette

DVCAM	Max. 41 min with PHDVM-63DM cassette
Fast forward/Rewind time	Approx. 2 min 40 s with PHDVM-63DM cassette
Audio/Video input/output	AUDIO/VIDEO jack x1
S-video input/output	Mini-DIN 4-pin x 1
Component video output	COMPONENT OUTPUT jack
i.LINK	4-pin
XLR audio input	XLR 3-pin female x 2, 327 mV, -60 dBu: 3 kΩ, +40 dBu: 10.8 kΩ, power supply: approx. 40 V
Headphone	Stereo minijack (3.5 mm)
LANC	Stereo mini-minijack (3.5 mm)
Color LCD viewfinder	0.44-inch type, approx. 252,000 pixels (1120 x 225), hybrid type
Color LCD monitor	3.5-inch type, approx. 250,000 pixels (1120 x 224), hybrid type
Microphone	Stereo type, noise reduction on/off
Mass	Approx. 2.1 kg (4 lb 10 oz) (camcorder only)
Power requirements	DC 7.2 V (battery pack)

Power consumption

HDV	Approx. 8.0 W (recording mode with LCD viewfinder on)
DVCAM/DV	Approx. 7.6 W (recording mode with LCD viewfinder on)
Operating temperature	0 to 40 °C (32 to 104 °K)
Storage temperature	(*2) These values are calculated to be equivalent to the 35 mm film.

Supplied Accessories

- Size AA (R6) battery
- Shoulder trap
- Shoe adaptor
- RMT-841 wireless Remode Commander
- Power cord
- Operating instructions
- NP-F570 InfoLITIUM rechargeable battery pack
- Lens hood
- Large eyecap
- Connecting cord
- Compoent video cable
- Cleaning cassette
- AC-VQ850 AC adaptor/charger
- A/V connecting cable

Accessories

Batteries and Power Supplies

2NP-F970/B

Rechargeable Battery Pack (2 Batteries)

NP-F970

InfoLITHIUM Rechargeable Battery Pack

NP-F570

InfoLITHIUM Rechargeable Battery Pack

AC-VQL1BP

Intelligent Quad Battery Charger and Dual AC adaptor

NP-F770

InfoLITHIUM Rechargeable Battery Pack

Lapel (ECM-series)

ECM-673

Short Shotgun Electret Condenser Microphone.

ECM-674

Electret Condenser Microphone

ECM-678

Electret Condenser Shotgun Microphone

Cases

LCH-FXA

Hard Carrying Case

LCR-FXA

Rain Jacket

LCS-VCB

Soft Carrying Case

LCS-G1BP

Soft Carry Case

Tripods

VCT-FXA

Shoulder Brace

VCT-PG11RMB

Tripod

VCT-1BP

Bracket For Camera Rear Mount

VCT-SP1BP

Multi-purpose Camcorder Support System

Remote Controls

RM-1BP

Remote Commander

Camera Adaptors

HVL-LBP

LED Battery Video Light